

Improving the approaches to planning the electricity consumption in budget institutions

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Abstract

© 2015 Nailya Malikovna Yakupova, Rezeda Muhtarovna Kundakchyan, Roza Nuriahmetovna Andreeva and Aleksey Vladimirovich Andreev. The technique of predicting the budget organizations' electrical power demands, which is currently used in Tatarstan Republic, based on the averaged norms for all educational establishments, does not reflect the impact of certain external and internal factors of environment influencing the volume of energy consumption, which results in the inefficient expenditure of the budget. This problem is especially topical for the local budgets, as a broad network of educational establishments is financed from these budgets. The article analyzes the impact of certain external and internal factors of environment on energy consumption in educational establishments by the example of municipal districts of Tatarstan Republic. The research allowed to conclude that electrical energy consumption in educational establishments is characterized by expressed seasonality, thus the model is presented as a multiplicative trend-season model, for which the component values are defined basing on correlation-regression analysis. Similar calculations were carried out for other municipal districts of Tatarstan Republic and trend-season models were constructed for each district under analysis.

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Keywords

Budget, Correlation analysis, Educational establishments, Public sphere, Regression analysis